

FORM PTO/SB/08 <i>Substitute for form 1449/PTO</i> INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Docket Number: 20078.0005USWO	Application Number: 10/532975
	Applicant: Mitani et al.	
	Filing Date: April 28, 2005	Group Art Unit: 1637

U.S. PATENT DOCUMENTS

Examiner Initial	Cite No.	Document Number	Kind Code	Publication Date (yyyy-mm-dd)	Name of Patentee or Applicant	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	2007/0190531	A1	2007-08-16	Mitani et al.	
	2	2003/0207292	A1	2003-11-06	Notomi et al.	
	3	6,617,106	B1	2003-09-09	Benner	
	4	2003/0073081	A1	2003-04-17	Mukai et al.	
	5	6,420,539	B1	2002-07-16	Kramer et al.	
	6	6,366,354	B1	2002-04-02	Chandler	
	7	6,117,635	A	2000-09-12	Nazarenko et al.	
	8	6,063,603	A	2000-05-16	Davey et al.	
	9	6,057,107	A	2000-05-02	Fulton	
	10	6,046,807	A	2000-04-04	Chandler	
	11	5,824,517	A	1998-10-20	Cleuziat et al.	
	12	5,712,124	A	1998-01-27	Walker	
	13	5,512,439	A	1996-04-30	Hornes et al.	
	14	4,849,336		1989-07-18	Miyoshi et al.	
	15	4,800,159		1989-01-24	Mullis et al.	
	16	4,683,202		1987-07-28	Mullis	
	17	4,683,195		1987-07-28	Mullis et al.	
	18	4,672,040		1987-06-09	Josephson	

FOREIGN PATENT DOCUMENTS

Examiner Initial	Cite No.	Country	Document Number	Kind Code	Publication Date	Name of Patentee or Applicant	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	Translation
	1	EP	1 327 679	A1	2003-07-16	Eiken Kagaku Kabushiki Kaisha		N/A
	2	EP	1 158 047	A1	2001-11-28	Mitsubishi Rayon Co., Ltd.		N/A
	3	WO	01/34838	A1	2001-05-17	Eiken Kagaku Kabushiki Kaisha		Abstract
	4	EP	1 072 678	A1	2001-01-31	Takara Shuzo Co., Ltd		N/A
	5	JP	2000-245460	A	2000-09-12	Mitsubishi Rayon Co., Ltd.		Abstract

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

FORM PTO/SB/08 <i>Substitute for form 1449/PTO</i> INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Docket Number: 20078.0005USWO	Application Number: 10/532975
	Applicant: Mitani et al.	
	Filing Date: April 28, 2005	Group Art Unit: 1637

	6	JP	2000-300265	A	2000-10-31	Amersham Pharmacia Biotech KK		Abstract
	7	WO	00/63691	A2	2000-10-26	Amersham Pharmacia Biotech KK		N/A
	8	EP	1 041 160	A1	2000-10-04	The Institute of Physical & Chemical Research Yoshihide Hayashizaki		N/A
	9	WO	00/28082	A1	2000-05-18	Eiken Kagaku Kabushiki Kaisha		Abstract
	10	EP	0 971 039	A2	2000-01-12	Enzo Diagnostics, Inc.		N/A
	11	WO	99/54455	A1	1999-10-28	Takara Shuzo Co., Ltd.		Abstract
	12	WO	99/10369	A1	1999-03-04	Thomas Jefferson University		N/A
	13	WO	99/09211	A1	1999-02-25	Tepnel Medical Limited		N/A
	14	WO	99/06591	A1	1999-02-11	The Institute of Physical & Chemical Research		Abstract
	15	JP	10-257900	A	1998-09-29	Toyo Boseki		Abstract
	16	JP	2710159	B2	1997-10-24	Unknown		Partial Machine
	17	JP	2650159	B2	1997-05-16	Unknown		Partial Machine
	18	JP	9-504699	A	1997-05-13	Unknown		Partial Machine
	19	WO	95/25180	A1	1995-09-21	Gen-Probe Incorporated		N/A
	20	WO	95/12689	A1	1995-05-11	Gene Check, Inc.		N/A
	21	JP	7-6986	A	1995-01-10	Nippondenso Co Ltd		Abstract
	22	JP	7-114718	B2	1995-12-13	Tanashin Denki Co		Abstract
	23	JP	4-501959	A	1992-04-09	Unknown		Abstract
	24	EP	0 320 308	A2	1989-06-14	Biotechnica International, Inc.		N/A
	25	JP	59-204200	A	1984-11-19	Wakunaga Seiyaku KK		Abstract
	26	JP	59-148798	A	1984-08-25	Wakunaga Seiyaku KK		Abstract
	27	JP	59-93099	A	1984-05-29	Wakunaga Seiyaku KK		Abstract

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.	

FORM PTO/SB/08 Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Docket Number: 20078.0005USWO	Application Number: 10/532975
(Use several sheets if necessary)	Applicant: Mitani et al.	
	Filing Date: April 28, 2005	Group Art Unit: 1637

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	1	AU, et al. "Initiation of Methyl-directed Mismatch Repair." The Journal of Biological Chemistry, vol. 267(17), June 1992, pp 12142-12148	N/A
	2	CLARK et al. "Functional Interaction of Proliferating Cell Nuclear Antigen with HSH2-MSH6 and MSH2-MSH3 Complexes." The Journal of Biological Chemistry, vol. 275(47), November 2000, pp. 36498-36501	N/A
	3	DENG et al. "Site-Directed Mutagenesis of Virtually any plasmid by Eliminating a Unique Site." Analytical Biochemistry 200, 1992, pp. 81-88	N/A
	4	DIAZ et al. "PCR-Mediated Chemical Mutagenesis of Cloned Duplex DNAs." BioTechniques, vol. 11(2), 1991, pp. 204-211	N/A
	5	DOHET et al. "Large non-homology in heteroduplex DNA is processed differently than single base pair mismatches." Mol Gen Genet, 206, 1987, pp. 181-184	N/A
	6	GOTOH et al. "Rapid method for detection of point mutations using mismatch binding protein (MutS) and an optical biosensor." Genetic Analysis: Biomolecular Engineering, 14, 1997, pp. 47-50	N/A
	7	HABER et al. "Nucleotide Sequence of the <i>Salmonella typhimurium</i> mutS Gene Required for Mismatch Repair: Homology of MutS and HexA of <i>Streptococcus pneumoniae</i> ." Journal of Bacteriology, vol. 170(1), January 1988, pp. 197-202	N/A
	8	HORLACHER et al. "Recognition by viral and cellular DNA polymerases of nucleosides bearing bases with nonstandard hydrogen bonding patterns." Proc. Natl. Acad. Sci. USA, vol. 92, July 1995, pp. 6329-6333	N/A
	9	JIRICNY et al., "Mismatch-containing oligonucleotide duplexes bound by the <i>E. coli</i> mutS-encoded protein." Nucleic Acids Research, vol. 16(16), 1988, pp. 7843-7853	N/A
	10	JONES et al. "Repair of a Mismatch is Influenced by the Base composition of the Surrounding Nucleotide Sequence", Genetics, 115, April 1987, pp. 605-610	N/A
	11	LAHUE et al. "DNA Mismatch Correction in a Defined System", Science, vol. 245, July 1989, pp. 160-164	N/A
	12	LAHUE et al. "Methyl-directed DNA mismatch repair in <i>Escherichia coli</i> ." Mutation Research, 198, 1988 pp. 37-43	N/A
	13	LARRICK "Message Amplification Phenotyping (MAPPING) – principles, practice and potential." TIBTECH, vol 10, May 1992, pp. 146-152	N/A
	14	LU et al. "Repair of Single Base-Pair Transversion Mismatches of <i>Escherichia coli</i> in <i>Vitro</i> : Correction of Certain A/G Mismatches Is Independent of <i>dam</i> Methylation and <i>Hose mutHLS</i> Gene Functions." Genetics, 118, April 1988, pp. 593-600	N/A
	15	LUTZ et al. "Recognition of a Non-Standard Base Pair by Thermostable DNA Polymerases." Bioorganic & Medicinal Chemistry Letters 8, 1998, pp. 1149-1152	N/A
	16	MODRICH "Methyl-directed DNA Mismatch Correction." The Journal of Biological Chemistry, vol. 264(12), 1989, pp. 6597-6600	N/A
	17	NAKAMAYE et al. "Inhibition of restriction endonuclease Nci I cleavage by phosphorothioate groups and is application to oligonucleotide-directed mutagenesis." Nucleic Acids Research, vol. 14(24), 1986, pp. 9679-9698	N/A
	18	PANG et al. "Identification and Characterization of the <i>mutL</i> and <i>mutS</i> Gene Products of <i>Salmonella typhimurium</i> LT2." Journal of Bacteriology, vol. 163(3), September 1985, pp. 1007-1015	N/A

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

FORM PTO/SB/08 <i>Substitute for form 1449/PTO</i> INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	Docket Number: 20078.0005USWO	Application Number: 10/532975
	Applicant: Mitani et al.	
	Filing Date: April 28, 2005	Group Art Unit: 1637

19	PRIEBE et al. "Nucleotide Sequence of the <i>hexA</i> Gene for DNA Mismatch Repair in <i>Streptococcus pneumoniae</i> and Homology of <i>hexA</i> to <i>mutS</i> of <i>Escherichia coli</i> and <i>salmonella typhimurium</i> ." <i>Journal of Bacteriology</i> , vol. 170(1), January 1988, pp. 190-196	N/A
20	RADMAN et al. "The High Fidelity of DNA Duplication." <i>Scientific American</i> , August 1988, pp. 24-30	N/A
21	RADMAN et al. "Mismatch Repair in <i>ESCHERICHIA COLI</i> ." <i>Ann. Rev. Genet.</i> , 20, 1986, pp. 523-538	N/A
22	SAMBROOK et al. "Conditions for Hybridization of Oligonucleotide Probes", <i>Molecular Cloning: A Laboratory Manual</i> , 2 nd edition, Cold Spring Harbor Laboratory Press, 1989, pp. 11.45-11.57	N/A
23	SISMOUR et al. "First PCR amplification of DNA containing a non-standard base pair", <i>Biochemistry</i> , vol. 42(28), 2003, p. 8598	N/A
24	SMITH et al. "Mutation detection with MutH, MutL, and MutS mismatch repair proteins." <i>Proc. Natl. Acad. Sci. USA</i> , vol. 93, April 1996, pp. 4374-4379	N/A
25	SU et al. "Mispair Specificity of Methyl-directed DNA Mismatch Correction <i>in Vitro</i> ", <i>The Journal of Biological Chemistry</i> , vol. 263(14), May 1988, pp. 6829-6835	N/A
26	"Third Party Observations on European Application Number 04807703.6 (EP1712618) in the name of RIKEN and Kabushiki Kaisha Dnaform" Issued by the European Patent Office July 24, 2008	N/A
27	FABRICE et al. "Une méthode d'amplification génique isotherme." <i>C.R. Acad. Sci. Paris, Sciences de la vie</i> 321, 1998, pp. 909-914.	Abstract
28	SAMBROOK et al. "Conditions for Hybridization of Oligonucleotide Probes", <i>Molecular Cloning: A Laboratory Manual</i> , 2 nd edition, Cold Spring Harbor Laboratory Press, 1989, pp. 8.2-8.17	N/A
29	LOWE et al. "A Computer Program for Selection of oligonucleotide primers for polymerase chain reactions." <i>Nucleic Acids Research</i> , vol. 18(7), 1990, pp. 1757-1761.	N/A
30	ROBERTSON et al. "An Introduction to PCR Primer Design and Optimization of Amplification Reactions." <i>Forensic DNA Profiling Protocols; Methods in Molecular Biology</i> , vol. 98, 1998, pp. 121-154.	N/A
31	HYNDMAN et al. "PCR Primer Design." <i>PCR Protocols Part III, Methods in Molecular Biology</i> , vol. 226, 2003, pp. 81-88.	N/A
32	VAN PELT-VERKUIL et al. Principles and Technical Aspects of PCR Amplification; Chapter 5: PCR Primers." 2008, pp. 63-90.	N/A
33	PUSKÁS et al. "Reduction of mispriming in amplification reactions with restricted PCR." <i>Genome Research</i> , 5(3), 1995, pp. 309-311.	N/A
34	HAFF "Improved quantitative PCR using nested primers." <i>PCR Methods Appl.</i> , 3, 1994, pp. 332-337.	N/A
35	GOOKIN et al. "Single-Tube Nested PCR for Detection of <i>Tritrichomonas foetus</i> in Feline Feces. <i>Journal of Clinical Microbiology</i> , vol 40(11), 2002, pp. 4126-4130.	N/A
36	CHAN et al. "Single-tube nested PCR in the diagnosis of tuberculosis." <i>Journal of Clinical Pathology</i> , vol. 49(4), 1996, 290-294.	N/A
37	WOLFF et al. "Single-tube nested PCR with room-temperature-stable reagents." <i>PCR Methods Appl</i> , 4(6), 1995, pp. 376-379.	N/A
38	ENOSAWA et al. "Use of Loop-Mediated Isothermal Amplifications of the IS900 Sequence for Rapid Detection of Cultured <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> ." <i>Journal of Clinical Microbiology</i> , 41(9), September 2003, pp. 4359-4365.	N/A

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.